

## Washdown 4/4X Cooling Units

### Features/Benefits:

Pfannenberg strives to provide a relatively maintenance free design for our customers. All our designs have additional options including:

**Stainless Steel Covers** - 304 SS, #3 polish to match enclosures and protect against washdown environments (316L optional).

**Enclosure Heater Option** - for special applications where heating is required to control condensate or keep electronics above a desired temperature range in cold climates.

**Voltage Options** - Many of our cooling units have been designed for both 50/60 Hz applications as well as 400 or 460 V operations with a simple jumper change in the e-box.



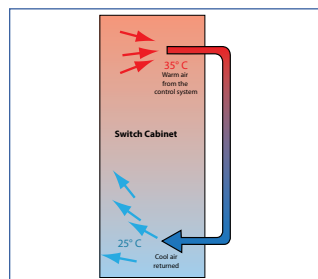
### Wide Condenser Fin Spacing / Coated Condenser & Pipes

This filter-free design also reduces the amount of maintenance required by the customer. A quick cleaning of the condenser is required less frequently versus the competition's models, while capacity is not compromised by easy clogging of the condenser core.



### Rugged, Long-lasting Backward Curved Impeller Fans

Utilizing this type of fan, our cooling units can go twice as long before needing service versus a typical blower style fan that has smaller, low-cost and high maintenance bearings.



### Proper Long Internal Air Flow Paths

The backward curve fan also has a natural right angle air path that allows our cooling units to capture hot air from the top of the electrical cabinet and deposit cool, dry air to the bottom of the cabinet and underneath critical components on the panel.



### Hermetically Sealed Refrigeration Circuit

Utilizing a maintenance free design, Pfannenberg implements a hermetically sealed design that **eliminates gasketed valves** and the leak source for many other A/C unit designs. Therefore, our cooling units do not need annual maintenance to determine if the unit is properly charged with R134a refrigerant.



### Standard Control Board

Controlling temperature and alarm setting via dip-switches, preventing airflow short cycling, high pressure switch alarm, on/off control of compressor with built-in delay timer and a LED lamp with four different flashing sequences. The control board is located in inner air circuit for protection from heat and dirt.

## Application Examples

The following are just a few examples of the industries and applications in which Pfannenberg's Washdown Cooling Units can be utilized. Call us today to find out how you can cut costs by keeping your processes, whatever they may be, up and running with reliability you can count on.



**Beverage  
Filling / Packaging**



**Wastewater / Irrigation**



**Oil & Gas / Food Processing**



# DTS 3031 SS (NEMA Outdoor Type 4/4X)

## Cooling Unit 900 - 1200 Btu/h

- Compact design, ideal for small control cabinets or for cooling of hot spots in larger control cabinets
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Logic connector for door contact input
- Powder coated steel cover for rugged environments, easily painted to match enclosure or machine
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3031 SS (NEMA Type 4/4X)		Unit
Part number		13383141158	13383144158	
Rated voltage ± 10 %		230	115	VAC
Frequency		50/60	60	Hz
Cooling performance according to EN 14511		1200		Btu/h
Power consumption		253	243	W
Nominal (Run) Current @ 35/35 °C		1.2	2.1	A
Starting current		3.5	5	
Unimpeded airflow (free flow)	internal	38 (65)		CFM (m³/h)
	external	30 (50)		
Fuse (maximum) Class CC		15	15	A
Type of connection		cord with molded plug		
Noise level (according to EN ISO 3741)		< 64		dB(A)
Weight (without packaging)		30 (13.6)		lb (kg)
Ambient temperature range		+ 46 ... + 114/ + 8 ... + 45		°F / °C
Control range (adjustable)		+ 77 ... + 113 / + 25 ... + 45 factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	150		g
Duty cycle		100 %		
Condensate management		Integrated Condensate Management System with Condensate Drain		
Protection system according to NEMA type		NEMA 4/4X against enclosure when properly installed		
		NEMA 1 towards the surroundings when properly installed		
Design	housing	stainless steel 304		
	cover	stainless steel 304		

Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500009	104
Condensate bottle	1	18314000100	104

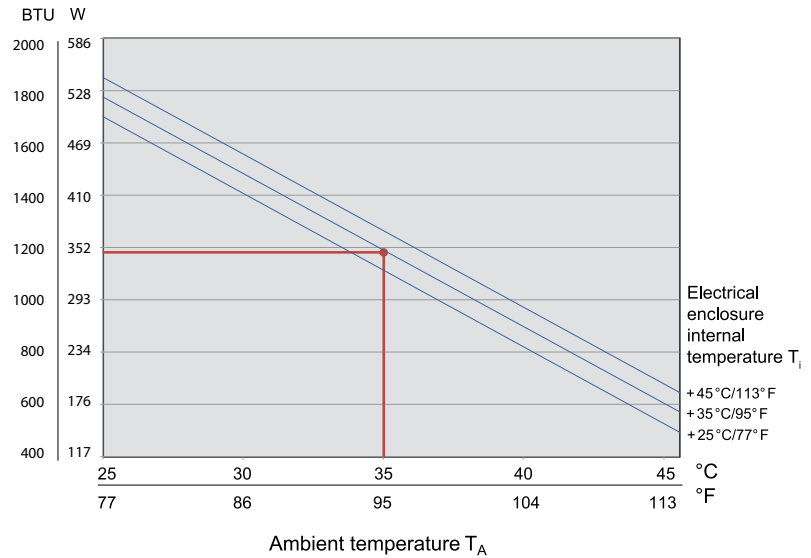
Approvals see page 15/16

## Cooling Capacity Performance Curve

### DTS 3031 SS

#### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 1187 Btu/h cooling capacity (Y-axis)



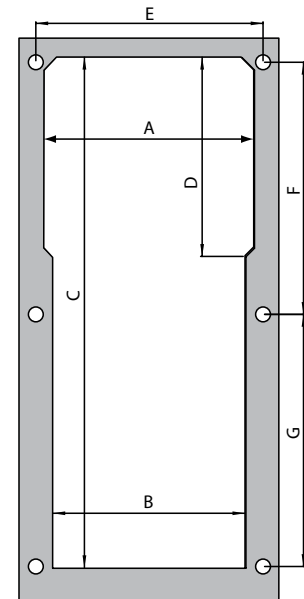
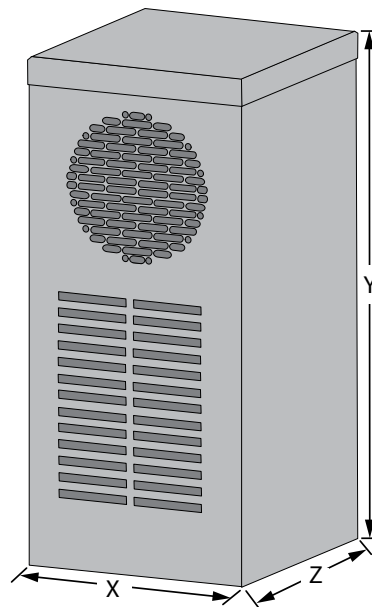
## Dimensions

### DTS 3031 SS

Dimension	inches	mm
<b>X</b>	7	177.8
<b>Y</b>	15.5	393.7
<b>Z</b>	7.75	196.8
<b>A</b>	5.31	135
<b>B</b>	4.88	124
<b>C</b>	12.91	328
<b>D</b>	5.04	128
<b>E</b>	5.75	146
<b>F</b>	6.38	162
<b>G</b>	6.38	162

Mounting holes Ø 10 mm

For exact cutout information reference drilling template at [pfannenbergusa.com](http://pfannenbergusa.com)



**DTS 3081 (NEMA 4/4X)****Cooling Unit 2000 - 3000 Btu/h**

- Compact design, ideal for small control cabinets and larger control cabinets for the cooling of hot spots
- Particularly suitable for the food industry and outdoor applications
- High protection system IP 56, maintenance-free
- Optionally available in stainless steel
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3081 (NEMA Type 4/4X)		Unit
Part number	304 Stainless Steel	13382341300	13382344300	
Rated voltage ± 10 %		230	115	VAC
Frequency		50/60	60*	Hz
Cooling performance according to EN 14511		2000 - 3000		Btu/h
Power consumption		663	690	W
Nominal (Run) Current @ 35A/35A °C		4.1	6	A
Starting current		10.4	12.2	
Unimpeded airflow (free flow)	internal	88 (150)		CFM (m³/h)
	external	191 (325)		
Fuse (maximum) Class CC		15	15	A
Type of connection		cord with molded plug		
Noise level (according to EN ISO 3741)		< 64		dB(A)
Weight (without packaging)		51 (23)		lb (kg)
Ambient temperature range		+ 32 ... + 131 / + 0 ... + 55		°F / °C
Control range (adjustable)		+ 77 ... + 113 / + 25 ... + 45 factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	400	228	g
Duty cycle		100 %		
Condensate management		Integrated Condensate Management System with Condensate Drain		
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	stainless steel 304		
	cover	stainless steel 304		

\*50 Hz unit available. Consult factory.

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Condensate bottle	1	18314000100	104

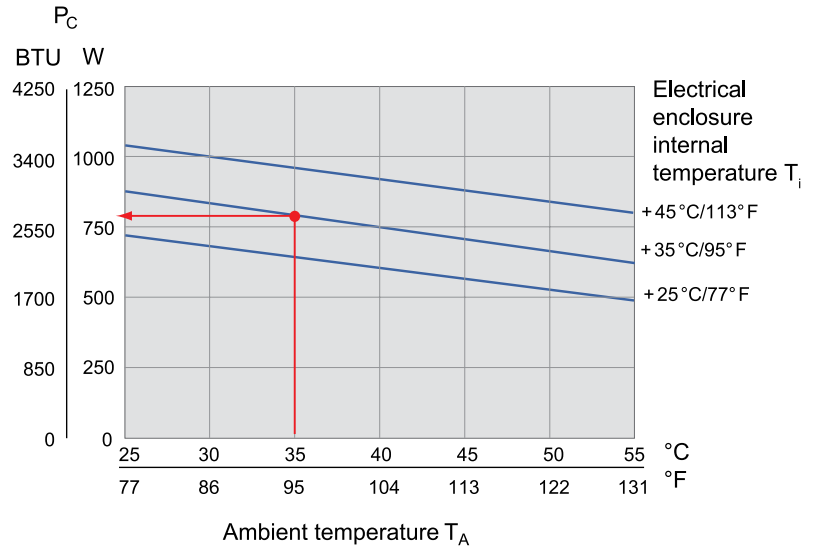
Approvals see page 15/16

## Cooling Capacity Performance Curve

DTS 3081

### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 2660 Btu/h cooling capacity (Y-axis)



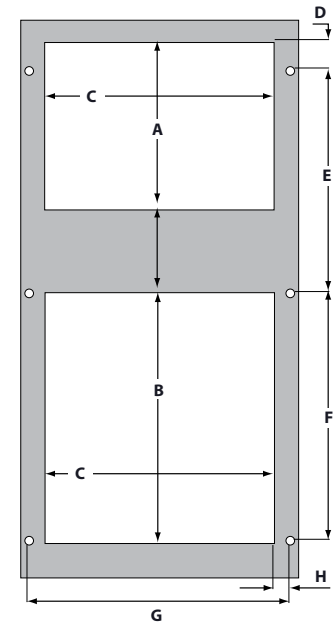
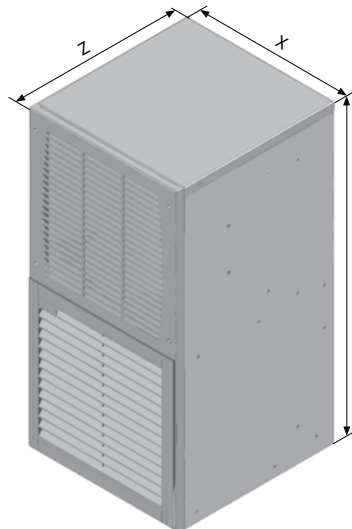
## Dimensions

DTS 3081

Dimension	inches (mm)
X	10.08 (256)
Y	20.16 (512)
Z	10.79 (274)
A	6 (152.4)
B	9.07 (230.3)
C	8.25 (209.6)
D	1.03 (26.1)
E	8 (203.2)
F	8.88 (225.6)
G	9.37 (238.1)
H	.056 (14.3)
I	3 (76.1)

Mounting holes  $\varnothing$  8 mm

Drawings are for reference only. Before making cutout consult [pfannenbergusa.com](http://pfannenbergusa.com) for precise templates.





## DTS 3181 (NEMA 4/4X)

### Cooling Unit 3000 - 4000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3181 (NEMA Type 4/4X)			Unit
Part number	304 Stainless Steel	13385436158	13385441158	13385444158	
Rated voltage ± 10 %		460 1Ø	230	115	VAC
Frequency		50 / 60		60*	Hz
Cooling performance according to EN 14511		3000 - 4000			Btu/h
Power consumption		1200	795	845	W
Nominal (Run) Current @35A/35A °C		2	4	7	A
Starting current		15	15	10	
Unimpeded airflow (free flow)	internal	178 (300)			CFM (m³/h)
	external	110 (185)			
Fuse (maximum)** Class CC		15	15	15	A
Type of connection		permanent spring terminal			
Noise level (according to EN ISO 3741)		< 70			dB(A)
Weight (without packaging)		95 (43)			lb (kg)
Ambient temperature range		+ 32 ... + 131 / + 0 ... + 55			°F / °C
Control range (adjustable)		+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	400			g
Duty cycle		100 %			
Condensate management		active condensate evaporation system with safety overflow			
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed			
		NEMA Type 1 towards the surroundings when properly installed			
Design	housing	galvanized sheet steel			
	cover	stainless steel 304			

\*50 Hz unit available. Consult factory.

\*\* SCCR rating - See user manual for instructions to achieve 50 kA (460 V) SCCR rating.

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500009	104
Condensate bottle	1	18314000100	104

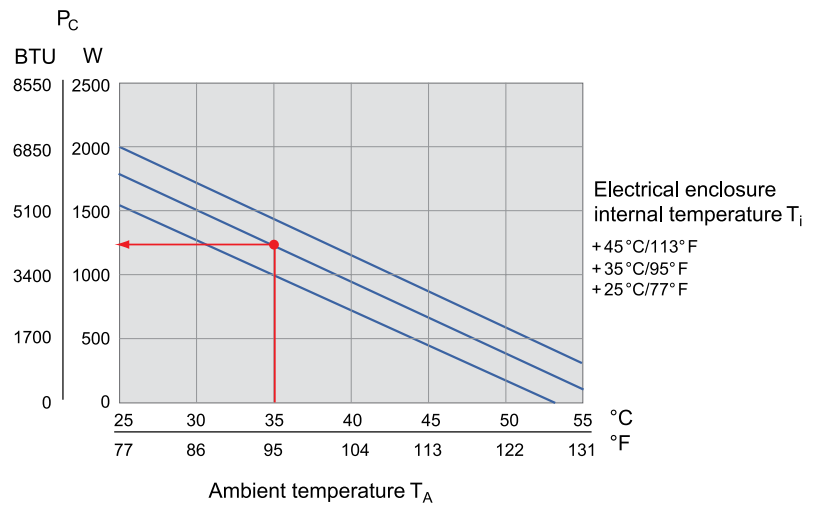
Approvals see page 15/16

## Cooling Capacity Performance Curve

DTS 3181

### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 3755 Btu/h cooling capacity (Y-axis)



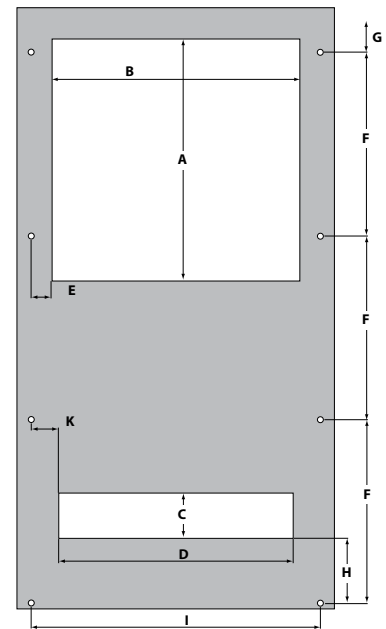
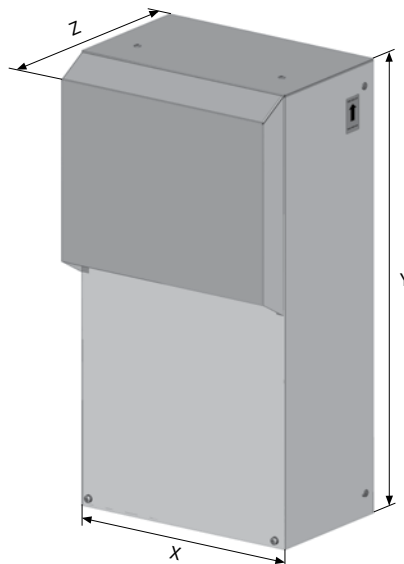
## Dimensions

DTS 3181

Dimension	inches (mm)
X	15.55 (395)
Y	29.33 (748)
Z	11.57 (294)
A	11.81 (300)
B	12.2 (310)
C	2.2 (56)
D	11.5 (292)
E	.98 (25)
F	9 (228.6)
G	1.5 (38.1)
H	3.19 (81)
I	14.17 (360)
J	10.12 (257)
K	1.34 (34)

Mounting holes Ø 8 mm

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## DTS 3181 SL (NEMA Type 4/4X)

### Cooling Unit 3000 - 5000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3181 SL (NEMA Type 4/4X)		Unit
Part number	304 Stainless Steel	13383436158	13383441355	
Rated voltage ± 10 %		400 / 460 1Ø	230	VAC
Frequency		50 / 60	50/60	Hz
Cooling performance according to EN 14511		3000 - 5000		Btu/h
Power consumption		751	890	W
Nominal (Run) Current @ 35A/35A °C		6.5	6.6	A
Starting current		14.8	14.8	
Unimpeded airflow (free flow)	internal	350 (595)		CFM (m³/h)
	external	350 (595)		
Fuse (maximum)** Class CC		15	15	A
Type of connection		permanent spring terminal		
Noise level (according to EN ISO 3741)		< 70		dB(A)
Weight (without packaging)		108 (49)		lb (kg)
Ambient temperature range		+ 59 ... + 131 / + 15 ... + 55		°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	900		g
Duty cycle		100 %		
Condensate management		active condensate evaporation system with safety overflow		
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	stainless steel 304		

\*\* SCCR rating - See user manual for instructions to achieve 200 kA (460 V) SCCR rating.

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500006	104
Condensate bottle	1	18314000100	104

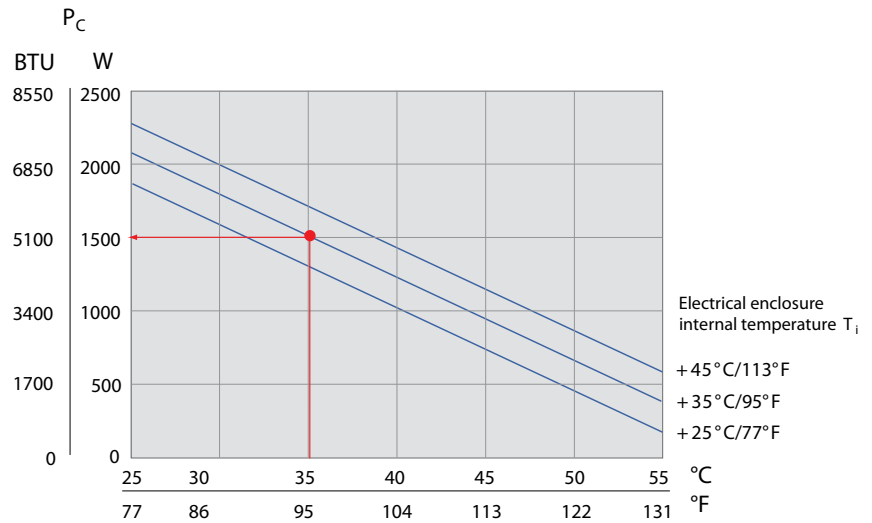
Approvals see page 15/16

## Cooling Capacity Performance Curve

### DTS 3181 SL

#### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 5107 Btu/h cooling capacity (Y-axis)



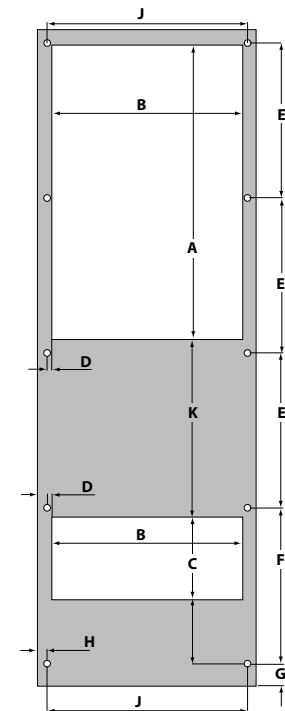
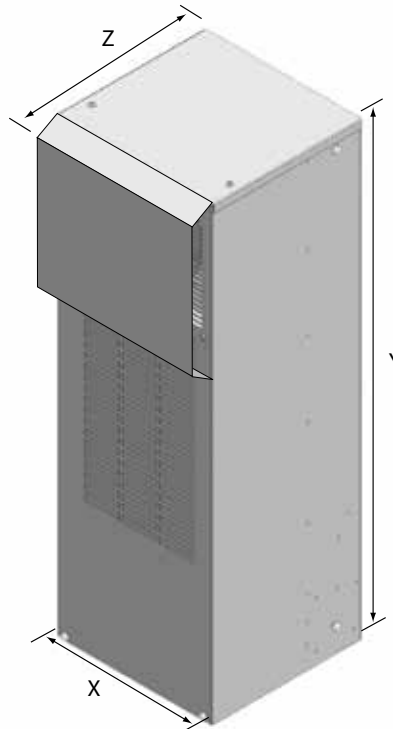
## Dimensions

### DTS 3181 SL

Dimension	inches (mm)
X	12.24 (311)
Y	36 (914)
Z	14.4 (367)
A	17 (430)
B	10.4 (264)
C	4.7 (118)
D	.30 (8)
E	8.5 (216)
F	8.5 (216)
G	1.3 (32)
H	.5 (13)
I	3.2 (80)
J	11 (279)
K	9 (228)

Mounting holes  $\varnothing$  10 mm

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## DTS 3185 (NEMA 4/4X)

### Cooling Unit 5000 - 7000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3185 (NEMA Type 4/4X)			Unit
Part number	304 Stainless Steel	13383636158	13383639158	13383644158	
Rated voltage ± 10 %		400 / 460 3Ø	230	115	VAC
Frequency		50 / 60	50/60	60*	Hz
Cooling performance according to EN 14511		5000 - 7000			Btu/h
Power consumption		1283	1020	1000	W
Nominal (Run) Current @ 35A/35A °C		4.5	7.8	12.6	A
Starting current		16	26	48	
Unimpeded airflow (free flow)	internal	341 (580)			CFM (m³/h)
	external	706 (1200)			
Fuse (maximum)** Class CC		5	10	15	A
Type of connection		permanent spring terminal			
Noise level (according to EN ISO 3741)		< 70			dB(A)
Weight (without packaging)		108 (49)			lb (kg)
Ambient temperature range		+ 59 ... + 131 / + 15 ... + 55			°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	900			g
Duty cycle		100 %			
Condensate management		active condensate evaporation system with safety overflow			
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed			
		NEMA Type 1 towards the surroundings when properly installed			
Design	housing	galvanized sheet steel			
	cover	stainless steel 304			

\*\* SCCR rating - See user manual for instructions to achieve 200 kA (460 V) SCCR rating.

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500006	104
Condensate bottle	1	18314000100	104

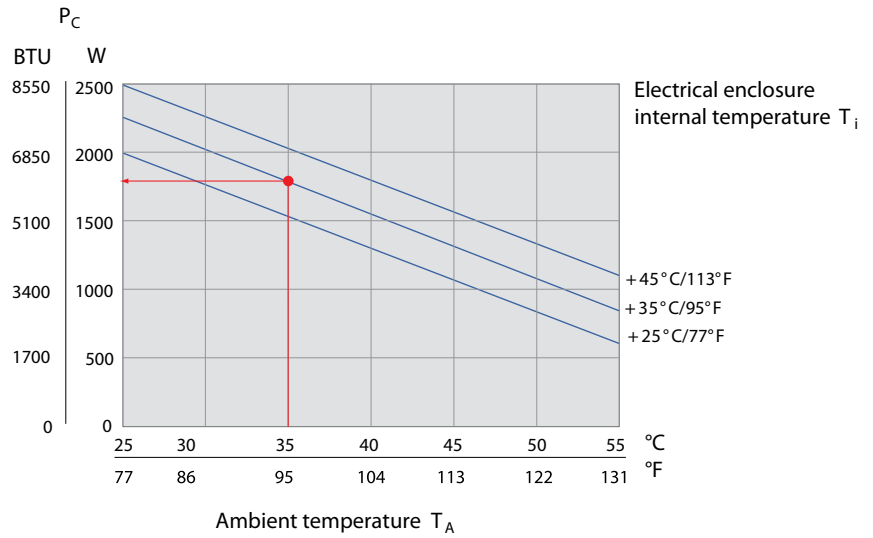
Approvals see page 15/16

## Cooling Capacity Performance Curve

### DTS 3185

#### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 6140 Btu/h cooling capacity (Y-axis)



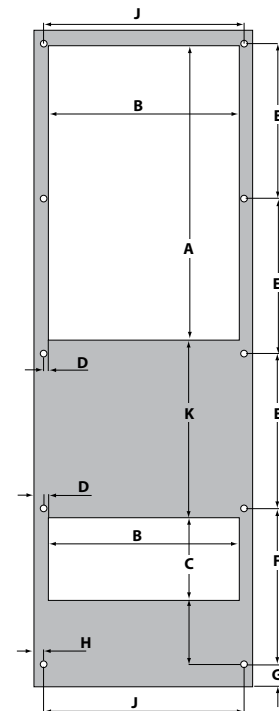
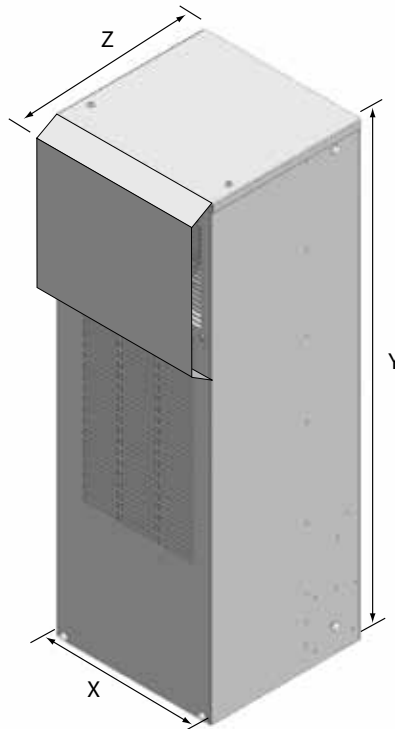
## Dimensions

### DTS 3185

Dimension	inches (mm)
X	12.24 (311)
Y	36 (914)
Z	14.4 (367)
A	17 (430)
B	10.4 (264)
C	4.7 (118)
D	.30 (8)
E	8.5 (216)
F	8.5 (216)
G	1.3 (32)
H	.5 (13)
I	3.2 (80)
J	11 (279)
K	9 (228)

Mounting holes  $\varnothing$  10 mm

Drawings are for reference only. Before making cutout consult [pfannenbergusa.com](http://pfannenbergusa.com) for precise templates.



## DTS 3281 (NEMA 4/4X)

### Cooling Unit 7000 - 8500 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data	DTS 3281 (NEMA Type 4/4X)				Unit
Part number	304 Stainless Steel	13385736158	13385741158	13385744158	
Rated voltage ± 10 %		400 / 460 3Ø	230	115	VAC
Frequency		50 / 60	50 / 60	60*	Hz
Cooling performance according to EN 14511		7000 - 8500			Btu/h
Power consumption		1400	1425	1680	W
Nominal (Run) Current @ 35A/35A °C		2	6.2	7.2	A
Starting current		16	21.8	53	
Unimpeded airflow (free flow)	internal	580 (985)			CFM (m³/h)
	external	580 (985)			
Fuse (maximum)** Class CC		15	15	25	A
Type of connection		permanent spring terminal			
Noise level (according to EN ISO 3741)		< 73			dB(A)
Weight (without packaging)		119 (54)			lb (kg)
Ambient temperature range		+ 32 ... + 131 / + 0 ... + 55			°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			g
	quantity	700			
Duty cycle		100 %			
Condensate management		active condensate evaporation system with safety overflow			
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed			
		NEMA Type 1 towards the surroundings when properly installed			
Design	housing	galvanized sheet steel			
	cover	stainless steel 304			

\*50 Hz unit available. Consult factory.

\*\* SCCR rating - See user manual for instructions to achieve 50 kA (230 V) or 200 kA (460 V) SCCR rating.

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500001	104
Condensate bottle	1	18314000100	104

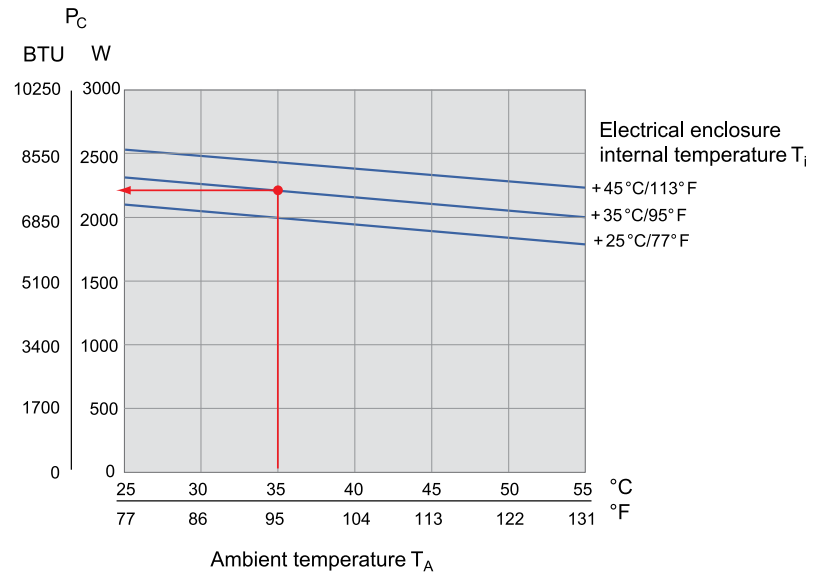
Approvals see page 15/16

## Cooling Capacity Performance Curve

### DTS 3281

#### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 7850 Btu/h cooling capacity (Y-axis)



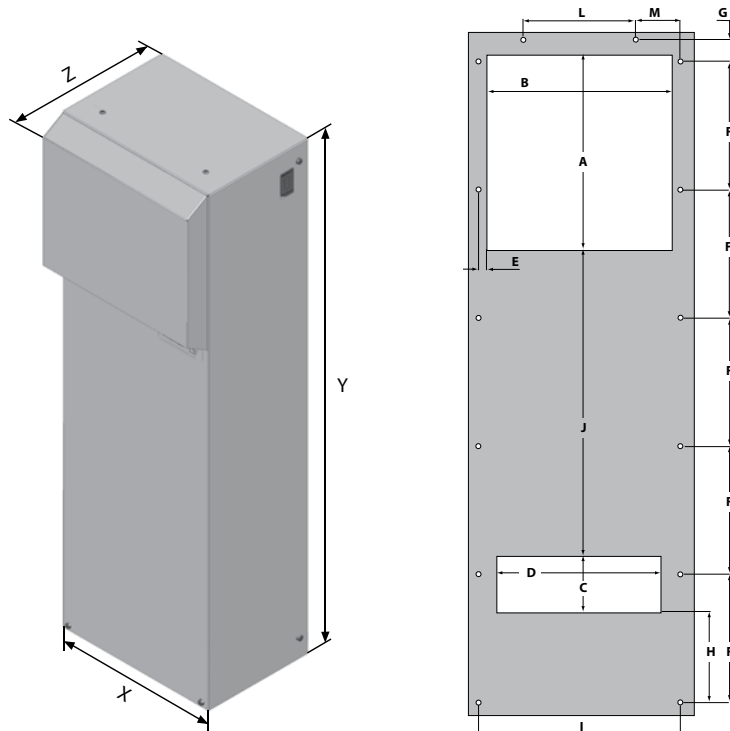
## Dimensions

### DTS 3281

Dimension	inches (mm)
<b>X</b>	15.55 (395)
<b>Y</b>	47.6 (1209)
<b>Z</b>	12.83 (326)
<b>A</b>	13.78 (350)
<b>B</b>	12.99 (330)
<b>C</b>	3.94 (100)
<b>D</b>	11.5 (292)
<b>E</b>	.59 (15)
<b>F</b>	9 (228.6)
<b>G</b>	1.5 (38.1)
<b>H</b>	6.39 (162.3)
<b>I</b>	14.17 (360)
<b>J</b>	21.46 (545)
<b>K</b>	1.34 (34)
<b>L</b>	7.87 (200)
<b>M</b>	3.15 (80)

Mounting holes  $\varnothing$  8 mm

Drawings are for reference only. Before making cutout consult [pfannenbergusa.com](http://pfannenbergusa.com) for precise templates.





## DTS 3285 (NEMA 4/4X)

### Cooling Unit 9000 - 12000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3285 (NEMA Type 4/4X)			Unit
Part number	304 Stainless Steel	13383836158	13383839158	13383844158	
Rated voltage ± 10 %		400 / 460 3Ø	230	115	VAC
Frequency		50 / 60	50/60	60*	Hz
Cooling performance according to EN 14511		9000 - 12000			Btu/h
Power consumption		1700	1600	1600	W
Nominal (Run) Current @ 35A/35A °C		2.6	9.4	16	A
Starting current		8	38	57	
Unimpeded airflow (free flow)	internal	706 (1200)	706 (1200)	765 (1300)	CFM (m³/h)
	external	706 (1200)	706 (1200)	765 (1300)	
Fuse (maximum)** Class CC		10	15	25	A
Type of connection		permanent spring terminal			
Noise level (according to EN ISO 3741)		< 73			dB(A)
Weight (without packaging)		150 (68)			lb (kg)
Ambient temperature range		+ 59 ... + 131 / + 15 ... + 55			°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35			
Refrigerant	type	R134a			
	quantity	1200			g
Duty cycle		100 %			
Condensate management		active condensate evaporation system with safety overflow			
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed			
		NEMA Type 1 towards the surroundings when properly installed			
Design	housing	galvanized sheet steel			
	cover	stainless steel 304			

\*\* SCCR rating - See user manual for instructions to achieve 50 kA (230 V) or 200 kA (460 V) SCCR rating.

Option(s)	Piece	Part number	Information on page
900 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500007	104
Condensate bottle	1	18314000100	104

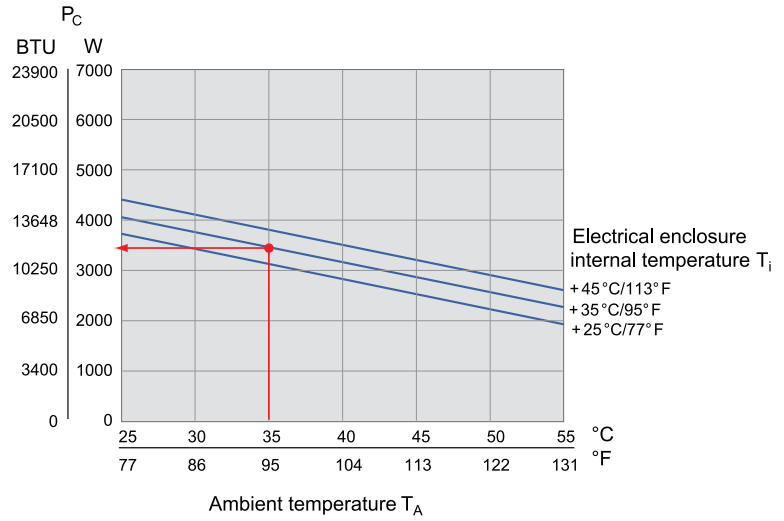
Approvals see page 15/16

## Cooling Capacity Performance Curve

### DTS 3285

#### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 10875 Btu/h cooling capacity (Y-axis)



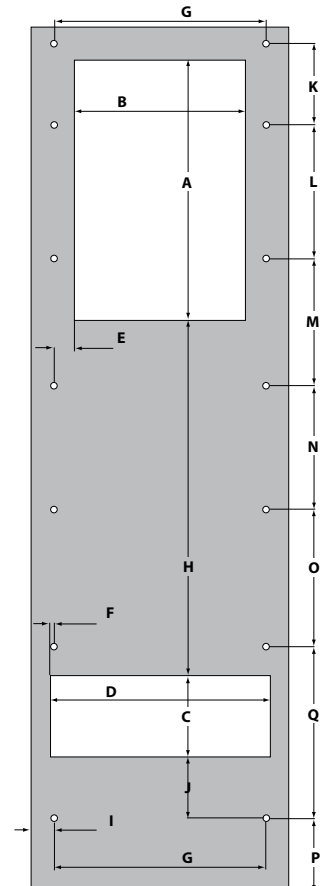
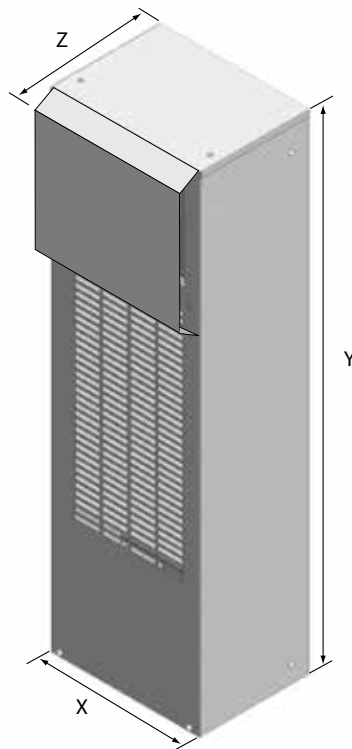
## Dimensions

### DTS 3285

Dimension	inches (mm)
X	16.0 (406)
Y	53.0 (1347)
Z	14.4 (367)
A	16.8 (427)
B	11 (280)
C	5.3 (135)
D	13.7 (348)
E	.98 (25)
F	.35 (9)
G	13.0 (330)
H	21.1 (537)
I	1.4 (35)
J	3.6 (92)
K	5.0 (126)
L	8.2 (209)
M	7.8 (198)
N	7.6 (192)
O	8.4 (214)
P	4.5 (114)
Q	10.5 (267)

Mounting holes Ø 8 mm

Drawings are for reference only. Before making cutout consult [pfannenbergusa.com](http://pfannenbergusa.com) for precise templates.



## DTS 3481 (NEMA 4/4X)

### Cooling Unit 14000 - 17000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Pending final design.

Data		DTS 3481 (NEMA Type 4/4X)	Unit
Part number	304 Stainless Steel	13385036158	
Rated voltage $\pm 10\%$		400/460 1Ø	VAC
		AC 50 / 60	Hz
Cooling performance according to EN 14511		14000 - 17000	Btu/h
Power consumption		1770	W
Nominal (Run) Current @ 35A/35A °C		2.5	A
Starting current		3.6	
Unimpeded airflow (free flow)	internal	559 (950)	CFM (m³/h)
	external	1212 (2060)	
Fuse (maximum)** Class CC		15	A
Type of connection		permanent screw terminal	
Noise level (according to EN ISO 3741)		TBD	dB(A)
Weight (without packaging)		175 (80)	lb (kg)
Ambient temperature range		(optional - 40) + 20... +131/-4(optional -40)...+55	°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35	
Refrigerant	type	R134a	
	quantity	1100	g
Duty cycle		100 %	
Condensate management		active condensate evaporation system with safety overflow	
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed	
		NEMA Type 1 towards the surroundings when properly installed	
Design	housing	galvanized sheet steel	
	cover	stainless steel 304	

\*50 Hz unit available. Consult factory.

\*\* SCCR rating - See user manual for instructions to achieve 200 kA (460 V) SCCR rating.

Option(s)	Piece	Part number	Information on page
1400 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500010	104
Condensate bottle	1	18314000100	104

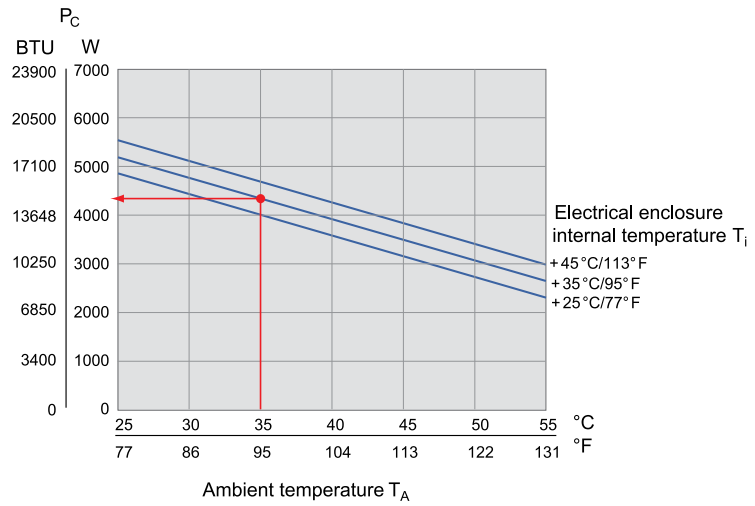
Approvals see page 15/16

## Cooling Capacity Performance Curve

### DTS 3481

#### How to use chart

Example:  
@ 95° F (ambient, X-axis), @ 95° F  
(internal, diagonal lines)  
= 11250 Btu/h cooling capacity (Y-axis)



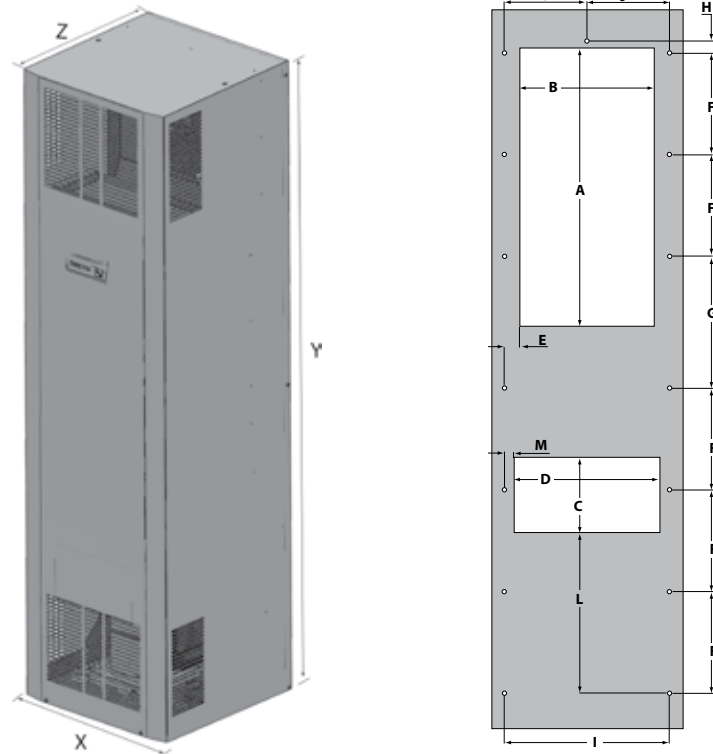
## Dimensions

### DTS 3481

Dimension	inches (mm)
<b>X</b>	15.87 (403)
<b>Y</b>	59.13 (1502)
<b>Z</b>	18.43 (468)
<b>A</b>	23.23 (590)
<b>B</b>	11.22 (285)
<b>C</b>	6.3 (160)
<b>D</b>	12.2 (310)
<b>E</b>	12.8 (325)
<b>F</b>	8.5 (216)
<b>G</b>	11.02 (280)
<b>H</b>	1.02 (26)
<b>I</b>	13.78 (350)
<b>J</b>	6.89 (175)
<b>K</b>	11.02 (280)
<b>L</b>	13.39 (340)
<b>M</b>	.79 (20)

Mounting holes  $\varnothing$  8 mm

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cutout consult [pfannenbergusa.com](http://pfannenbergusa.com) for precise  
templates.



## DTS 3681 (NEMA 4/4X)

### Cooling Unit 20000 - 24000 Btu/h

- Large distance between intake and exhaust vents, safe circulation within the electrical enclosure due to long passage of air, therefore hot spots are eliminated
- Maintains a UL Tested NEMA Type 4/4X seal against enclosure
- UL 484 Listed, category ACVS, UL file #SA10300, CE approved for European use
- Maintenance-free design, filterless for most applications
- 304 Stainless steel cover to match enclosures, with # 3 polish
- Condenser with 3 mm fin spacing, highly effective protection against strongly contaminated and aggressive ambient air
- Particularly suitable for food and beverage, wastewater and pump applications
- Utilizes a thermal expansion valve (TXV) to ensure maximum performance over a broad range



Data		DTS 3681 (NEMA Type 4/4X)		Unit
Part number	304 Stainless Steel	13383936158	13383939158	
Rated voltage ± 10 %		400 / 460 3Ø	230	VAC
Frequency		50 / 60	60*	Hz
Cooling performance according to EN 14511		20000 - 24000		W
Power consumption		2000/2620	3142	
Nominal (Run) Current @ 35A/35A °C		4.8	17.1	A
Starting current		25	84	
Unimpeded airflow (free flow)	internal	1613 (2740)		CFM (m³/h)
	external	1613 (2740)		
Fuse (maximum)** Class CC		15	30	A
Type of connection		permanent screw terminal		
Noise level (according to EN ISO 3741)		< 73		dB(A)
Weight (without packaging)		230 (105)		lb (kg)
Ambient temperature range		+ 32 ... + 131 / + 0 ... + 55		°F / °C
Control range (adjustable)	SC	+ 77 ... + 113 / + 25 ... + 45; factory setting + 95 / + 35		
Refrigerant	type	R134a		
	quantity	1300		g
Duty cycle		100 %		
Condensate management		active condensate evaporation system with safety overflow		
Protection system according to NEMA type		NEMA Type 4/4X against enclosure when properly installed		
		NEMA Type 1 towards the surroundings when properly installed		
Design	housing	galvanized sheet steel		
	cover	304 stainless steel		

\*50 Hz unit available. Consult factory.

\*\* SCCR rating - See user manual for instructions to achieve 50 kA (230 V) or 200 kA (460 V) SCCR rating.

Option(s)	Piece	Part number	Information on page
1400 W Enclosure Heater	1	Consult Factory	-
Accessories	Piece	Part number	Information on page
Metal Mesh Filter	1	18881500004	104
Condensate bottle	1	18314000100	104

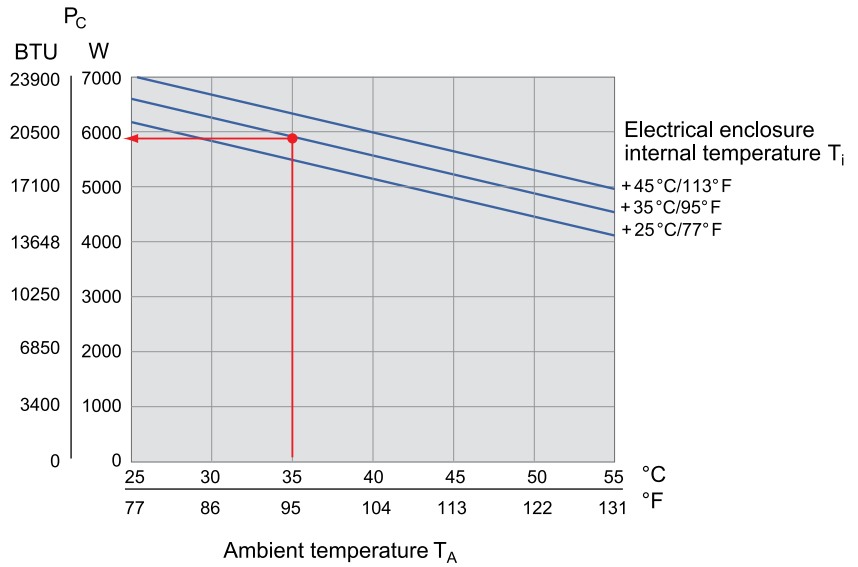
Approvals see page 15/16

## Cooling Capacity Performance Curve

DTS 3681

### How to use chart

Example:  
@ 95° F (ambient, X-axis),  
@ 95° F (internal, diagonal lines)  
= 20500 Btu/h cooling capacity (Y-axis)



## Dimensions

DTS 3681

Dimension	inches (mm)
X	19.02 (483)
Y	65.63 (1667)
Z	24.53 (623)
A	25 (635)
B	13.78 (350)
C	11.22 (285)
D	10.24 (260)
E	1.38 (35)
F	9.45 (240)
G	13.78 (350)
H	5.47 (139)
I	16.54 (420)
J	8.27 (210)
K	16.73 (425)
L	1.12 (28.5)

Mounting holes  $\varnothing$  10 mm

Drawings are for reference only. Before making cutout consult [pfannenbergusa.com](http://pfannenbergusa.com) for precise templates.

